

## Online learning with the Cambridge Structural Database (CSD)

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The Cambridge Structural Database (CSD) [1] is the largest curated database of organic and metal-organic structures with over 1.3 million structures. Such a wealth of information can be used to generate new knowledge, making the CSD and its associated software portfolio a powerful resource for scientists worldwide. The knowledge extracted from the database can provide insights into crystal structures and trends, and inform new discoveries; similarly, it can support and enhance learning with opportunity for hands-on experience and deeper understanding of chemistry and crystallography.

To facilitate scientists to leverage the CSD for research and education, the Cambridge Crystallographic Data Centre (CCDC), the curators of the CSD, offers a variety of training for users in different formats, covering different software and different use cases and applications, as well as materials for teaching. In this talk we will focus on some of these resources, in particular the Virtual Workshop series and the CSDU online on-demand modules, highlighting their formats and goals.

The CCDC website is also the home of DECOR, the Database of Educational Crystallographic Online Resources, a collection of teaching materials for crystallography shared by educators in the community. In this talk we will see some examples of resources of interest for the topic of this microsymposium.

[1] Groom, C. R., Bruno, I. J., Lightfoot, M. P., Ward, S. C. (2016). *Acta Cryst. B* **72**, 171-179.